SwipeBite -Midterm

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Problem



The **studies** show:

If a person eats out at least once a day, that would result in an average **7300 minutes** per year they would spend to find somewhere to eat. That's 5 days for the average person each year! [1]

No you decide! No YOU! The average couple spends a whopping 132 hours a year just deciding where to EAT

Project Plan - Brief Schedule

Task	Assignee	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14
Feature Refinement	All Members												
UX/UI Design	Frontend												
DB Structurer Design	Backend												
App Page Development	Frontend												
API Development	Backend												
Deployment and Testing	All members												

Role Distribution

- **Shakhzod** Frontend & Backend Team
 - Firebase database
 - Login/Signup feature
 - Flutter integration
- Ramon Arias Frontend Team
 - o Figma design
 - Translation to Flutter
 - Flutter implementation

- Sung Jun Park Frontend & Crawler Team
 - Naver Maps crawler
 - Flutter implementation

- Yujin Juhn Crawler Team
 - Naver Maps crawler Python
 - Collection of data

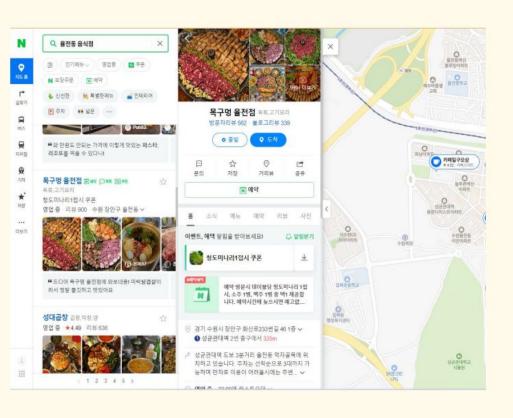
Naver Maps Crawler





- HTML Parsing: We'll use HTML parsing libraries to extract the desired data from the page's structure.
- Data Storage: Extracted data will be stored in a structured format, such as a database or CSV files, for further analysis and use.

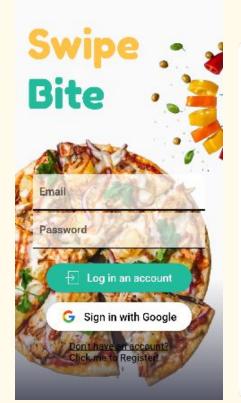
Naver Maps Crawler

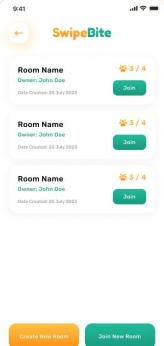


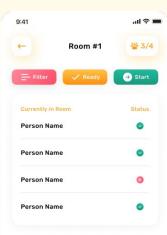
We managed to crawl

- Name of restaurant
- Category of restaurant
- Ratings
- Number of Reviews
- Several Photos
- Opening Hours
- Whether Parking is available
- Phone Number
- Menu Plate
- Dishes and Price

U1/UX



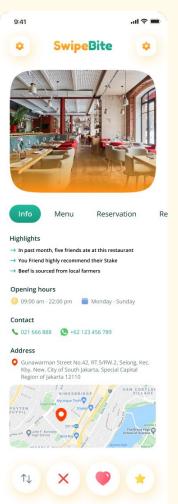




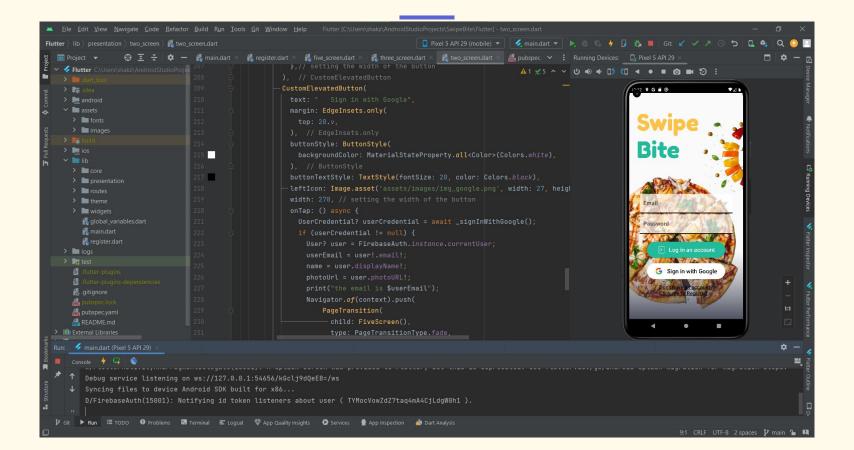


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Frontend



Frontend

- .dart_tool & .idea: System and IDE configuration directories.
- **android:** Platform-specific build configurations.
- **assets:** Houses static resources like images.
- lib: Main Dart code, with:
 - core: Core functionalities.
 - presentation: U1-related files, with individual screens and U1 utilities.
 - o **main.dart**: App's entry point.
- Flutter version used: Flutter 3.13.9 channel stable

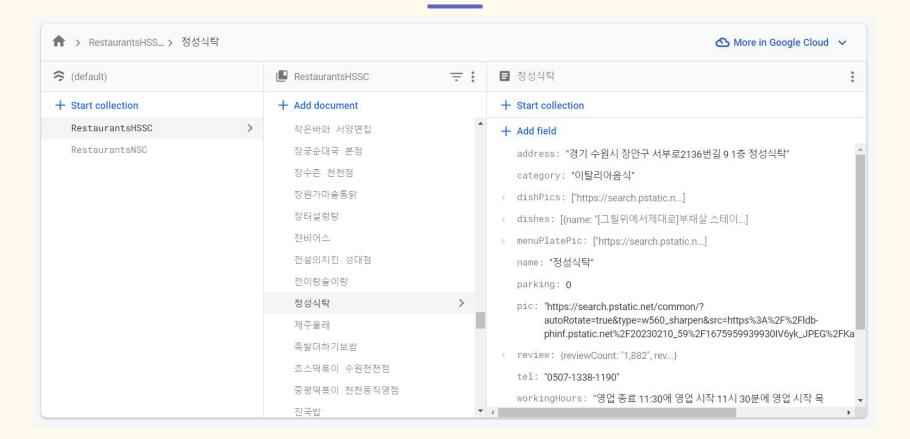


Backend

- Have collected dataset using Python Crawler on NaverMaps and exported it as json file
- Have got 2 json files: 천천동_231102.json and 율전동_231102.json
- Each Place has following:

Address	The Place picture
Name	Review
Category	☐ Review count
Dish Pictures	☐ Tags
Dishes	Phone Number
Menu Picture	Working Hours
Is Parking available	Coordinates (will be added soon)

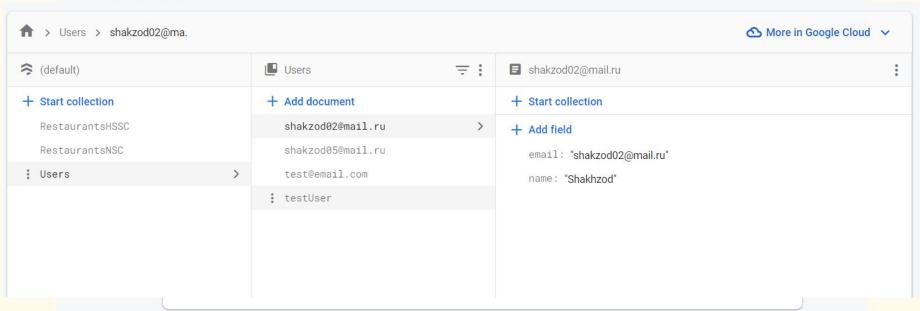
Backend



Backend

For managing the sign in/up we are using Firebase authentication

Authentication



Objective/Milestone

- Load data from crawler into the app
- Finish integrating frontend and backend
- Implement logic for:
 - Creating room & connecting users
 - Finding restaurants
 - Matching
- Fine Tuning





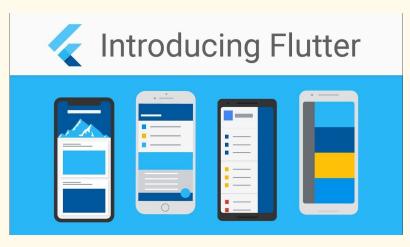
Challenges/Limitations

Appealing U1

Flutter, front-end

Lack of restaurant information used for dataset

Designing an experience that smoothly facilitates group decision





Challenges/Limitations

 Real-Time Syncing: Ensuring the app performs real-time updates when multiple users are swiping and matching

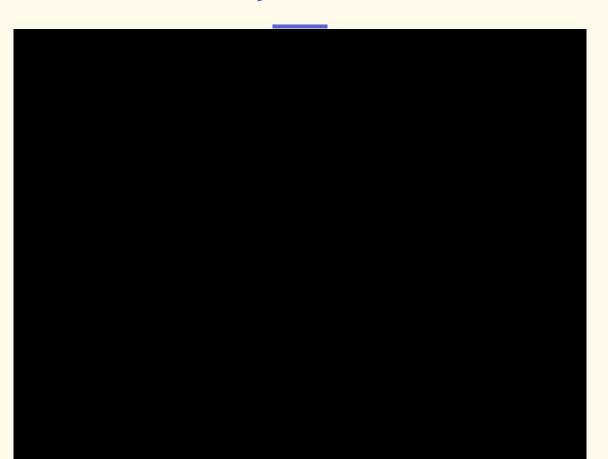
 Scalability: Designing the app to handle a large number of users and simultaneous connections without performance lag





Room #1

Login Demo



References

- [1] How long does it take for someone to find where to eat
- [2] Couples spend 132 hours a year deciding where to eat